FIG. 1

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Attorney: Cynthia K. Thompson
Telephone No.: (312) 425-3900
Sheet 2 of 4

Voltage (0 = no change, + = increase, - = decrease)	Current	Power	Direction (0 = indeterminate, + = downstream, - = upstream)
-	-	-	-
-	-	+	0
-	-	0	-
-	+	-	-
-	+	+	+
-	+	0	+
-	0	-	-
-	0	+	+
-	0	0	-
+	-	-	+
+	-	+	-
+	-	0	+
+	+	-	0
+	+	+	-
+	+	0	-
+	0	-	+
+	0	+	-
+	0	0	-
0	-	-	0
0	-	+	0
0	-	0	0
0	+	-	0
0	+	+	0
0	+	0	0
0	0	-	0
0	0	+	0

FIG. 2

DA	Unknown	Unknown	Unknown	Downstream	Downstream	Downstream	Upstream	Upstream	Upstream
DB	Unknown	Downstream	Upstream	Unknown	Downstream	Upstream	Unknown	Downstream	Upstream
DC	Unknown	Downstream	Upstream	Downstream	Downstream	Downstream	Upstream	Downstream	Upstream
CC	CA + CB	CA + CB	CA + CB	CA + CB	CA>=CB: CA-CB CB>CA: CB-CA	CA + CB	CA + CB	CA + CB	CA + CB
FBC	FBA	FBA	FBA	FBA	FBA	FBA	FBA	FBA	FBA
TBC	TBA	TBB	TBB	TBA	CA>=CB: TBA CB>CA: TBB	TBA	TBA	TBB	TBA

FIG. 3

DA = DIRECTION, BRANCH A
DB = DIRECTION, BRANCH B
CA = CONFIDENCE, BRANCH A
CB = CONFIDENCE, BRANCH B

FBA = FROM BUS, BRANCH A
FBB = FROM BUS, BRANCH B
TBA = TO BUS, BRANCH A
TBB = TO BUS, BRANCH B

FBC = FROM BUS, COMBINATION
TBC = TO BUS, COMBINATION
DC = DIRECTION, COMBINATION
CC = CONFIDENCE COMBINATION

DA	Unknown	Unknown	Unknown	Downstream	Downstream	Downstream	Upstream	Upstream	Upstream
DB	Unknown	Downstream	Upstream	Unknown	Downstream	Upstream	Unknown	Downstream	Upstream
DC	Unknown	Downstream	Upstream	Downstream	Downstream	Downstream	Upstream	CB>=CA: Downstream CA>CB: Upstream	Upstream
CC	CA + CB	CA + CB	CA + CB	CA + CB	CA + CB	CA + CB	CA + CB	CB>=CA: CB - CA CA>CB: CA - CB	CA + CB
FBC	FBA	FBA	FBA	FBA	FBA	FBA	FBA	FBA	FBA
TBC	TBA	TBB	TBB	TBA	TBB	TBA	TBA	TBB	TBA

FIG. 4

DA = DIRECTION, BRANCH A
DB = DIRECTION, BRANCH B
CA = CONFIDENCE, BRANCH A
CB = CONFIDENCE, BRANCH B

FBA = FROM BUS, BRANCH A
FBB = FROM BUS, BRANCH B
TBA = TO BUS, BRANCH A
TBB- TO BUS, BRANCH B

FBC = FROM BUS, COMBINATION
TBC= TO BUS, COMBINATION
DC = DIRECTION, COMBINATION
CC = CONFIDENCE COMBINATION